

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **14CZ-LD5-25-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-25-UNV-L850-CD1-U  
Description: CRUZE 1x4 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

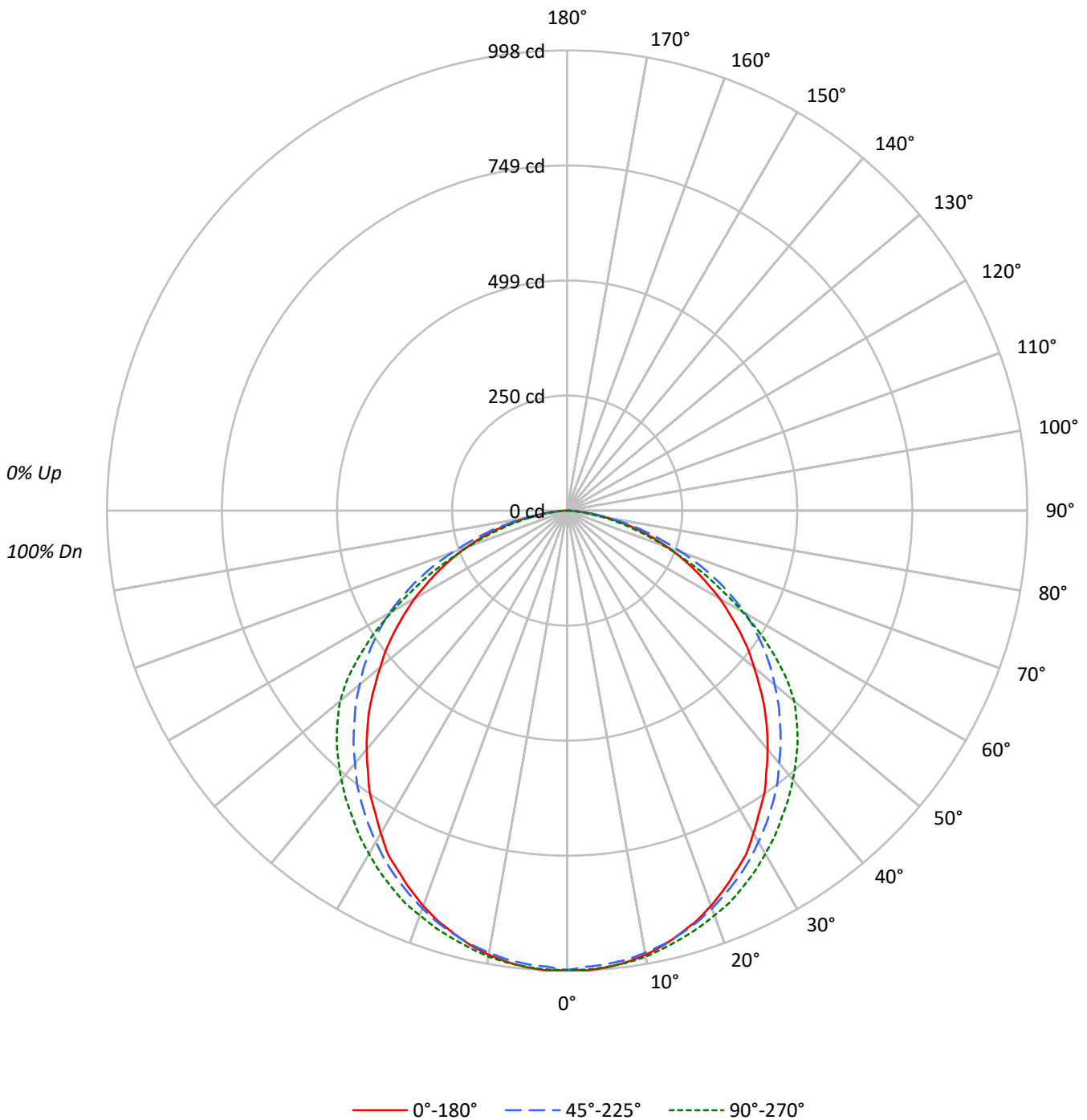
Lumens per Lamp: N/A  
Luminaire Lumens: 2762.8 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 20.46  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2681	2681	2681
5°	2680	2648	2661
10°	2662	2620	2638
15°	2627	2587	2606
20°	2589	2548	2581
25°	2536	2504	2556
30°	2475	2453	2525
35°	2410	2402	2493
40°	2328	2340	2469
45°	2249	2282	2446
50°	2151	2224	2404
55°	2068	2166	2257
60°	1973	2084	2015
65°	1849	1924	1732
70°	1702	1673	1394
75°	1502	1363	1086
80°	1156	948	725
85°	730	405	277



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.3	3.4
10°-20°	269.3	9.7
20°-30°	406.3	14.7
30°-40°	487.1	17.6
40°-50°	505.5	18.3
50°-60°	456.4	16.5
60°-70°	332.4	12.0
70°-80°	174.3	6.3
80°-90°	37.3	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	769.8	27.9
0°-40°	1256.9	45.5
0°-60°	2218.8	80.3
0°-90°	2762.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2762.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	994	992	988	994	994	94
15°	949	949	951	961	961	268
25°	864	869	878	897	901	398
35°	746	754	776	805	812	466
45°	606	619	653	694	707	466
55°	456	472	520	551	550	408
65°	306	324	359	343	330	303
75°	158	180	174	151	143	166
85°	30	36	26	20	19	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	996.3	996.3	996.3	996.3	996.3
2.5°	998.3	995.6	990.3	996.9	996.3
5°	994.3	992.3	987.7	994.3	993.6
7.5°	987.7	986.4	982.4	989.7	989.0
10°	978.4	976.4	973.8	981.7	982.4
12.5°	965.9	965.2	963.9	972.5	971.8
15°	949.4	949.4	950.7	961.3	960.6
17.5°	932.8	932.8	936.1	948.0	948.7
20°	912.4	913.7	918.3	932.8	934.2
22.5°	889.2	890.6	898.5	917.0	920.3
25°	864.1	868.8	878.0	897.2	901.1
27.5°	841.0	841.7	855.5	876.7	882.0
30°	808.0	817.2	829.8	854.2	859.5
32.5°	775.6	784.9	804.0	830.4	837.7
35°	746.5	753.8	776.3	805.3	811.9
37.5°	710.2	722.1	748.5	778.9	788.2
40°	676.5	687.1	715.5	749.8	761.7
42.5°	641.5	653.4	685.8	722.8	734.6
45°	605.8	619.0	652.7	693.7	706.9
47.5°	566.8	583.4	621.7	663.3	675.2
50°	529.2	546.4	587.3	630.9	642.8
52.5°	494.8	510.0	555.0	595.3	600.5
55°	456.5	472.4	519.9	551.0	549.7
57.5°	418.2	436.0	483.6	502.8	497.5
60°	382.5	399.0	446.6	450.6	439.3
62.5°	342.9	362.0	402.3	396.4	382.5
65°	305.9	324.4	359.4	342.9	330.3
67.5°	268.2	288.0	313.2	288.7	274.2
70°	231.2	255.0	264.3	237.8	225.9
72.5°	193.6	218.7	218.0	192.9	183.0
75°	157.9	180.4	174.4	150.6	143.4
77.5°	120.2	142.7	131.5	113.6	107.0
80°	85.2	106.4	91.8	78.0	73.3
82.5°	58.1	70.7	57.5	45.6	43.6
85°	30.4	36.3	26.4	20.5	19.2
87.5°	11.2	10.6	9.2	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)